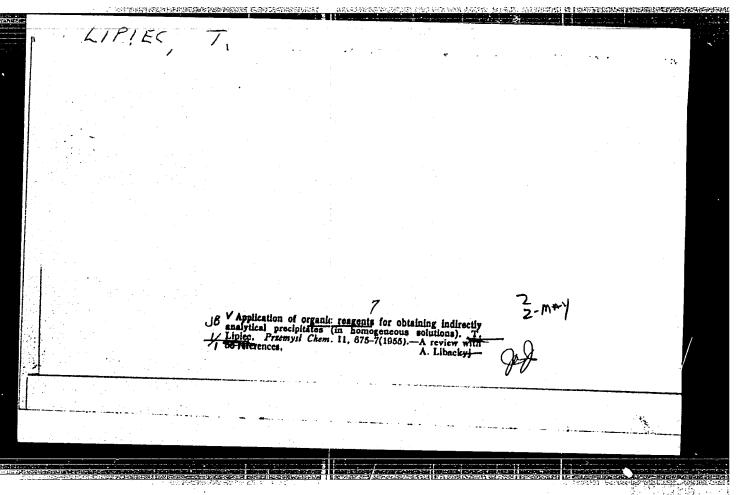
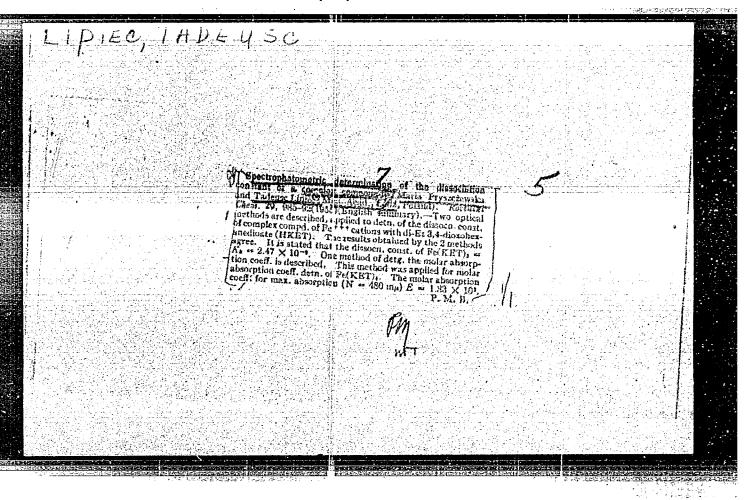
LIPIEC, T. Problem of obtaining of proper sediment for analysis with special reference to the method of so-called indirect separation. 11 Suppl.: 112-114 1955. 1. Zaklad Chemii Nicorganicznej i Analitycznej Akademii Medycznej, Lodz. (CHEMICAL ANALYSIS, indirect sedimentation in)





POLAND/Chemical Technology. Chemical Products and Their Applications. Medicinal Sub-Η stances. Vitamins. Antibiotics. Abs Jour: Ref Zhur-Khimiya, No 6, 1959, 20544 Author : Lipiec, Tadeusz; Ramotowski, Stefan Inst Title : Use of the Amide of Thioacetic Acid as a Reagont for Determining the Contamination of Medicinal Preparations by Heavy Metals. Orig Pub: Acta polon. pharmac., 1957, 14, No 3, 185-190 Abstract : No abstract. Card : 1/1 14-87

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	Bisthiosemicarbazones of n-diketones and their complexes with ions of heavy metals. Wolciech Gorski. Marion Zolnierowicz, and Tudensz Linicc. Chem. Anal. (Warsaw) 3, 847-50(1958):—(COCH ₃ CO ₃ Et), (1 molc) in EtOH heated 3 hrs. on a water bath with 2 moles NH ₃ . For an analysis of the control of the co	
	in EtOll heated 3 hrs. on a water bath with 2 moles NH ₁ - Page (CSNHNH ₂ in H ₂ O gave [C(CH ₂ CO ₁ Et): NNHCSNH ₂ ! ₄ (I), m. 210° (decompn.) [dioxane (II)]. I in II formed with	
	m. 210° (decompn.) [dioxane (II)]. I in II formed with Ag ¹⁺ , Hg ¹⁺ , Hg ¹⁺ , and Cu ¹⁻ colored ppts. sol. in varying degrees in Bt ₁ O, CHCl ₁ , and Mt ₂ CO. I boiled in EtOl1 gave	
	RtO ₁ CCH ₁ C: N.NH.C(S). N: CCH ₁ CO ₁ Et (III), m. 162°. III did not form complexes. P. Drayluss A.IT	
		•

LIPIEC, T.; PETMI, S.

Argentometric determination of thiocetamide (AKT) by the potentiometric method. p. 191.

CHEMIA ANALITYCZNA. (Komisja Analitycana Polskie Akademii Nauk i Naczelna Organizacja Techniczma) Warszawa. Poland. Vol. l_1 , no. $\frac{1}{2}$, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 8, August 1959 Uncla.

LIPIEC, T.; PETRI, S.

Polarographic determination of the thallium content of biological material. p. 197.

CHEMIA ANALITYCZNA. (Komisja Analitycana Polskie Akademii Nauk i Naczelna Organizacja Techniczna) Warszawa. Poland. Vol. 4, no. 1, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, August 1959 Uncla.

LIPIEC, T.; PETRI, S.

Argentometric determination of thioatamide (AKT) by the potentiometric method. p. 191.

CHIMIA ANALITYCZNA. Warszawa, Poland, No. 8, August 1959.

Monthly List of East European Accessions (EFAI) LC, Vol. 8, No. 11 November 1959.

Uncl.

LIPIEC, Tadeusz; KORKUC, Anna; PETRI, Stanislaw

Thieacetic acid amide, its chemical, analytical and physiological properties. Chem anal 6 no.3:287-306 '61.

1. Katedra Chemii Nieorganicznej i Analytycznej, Wydzial Farmaceutyczny, Akademia Medyczna, Lodz.

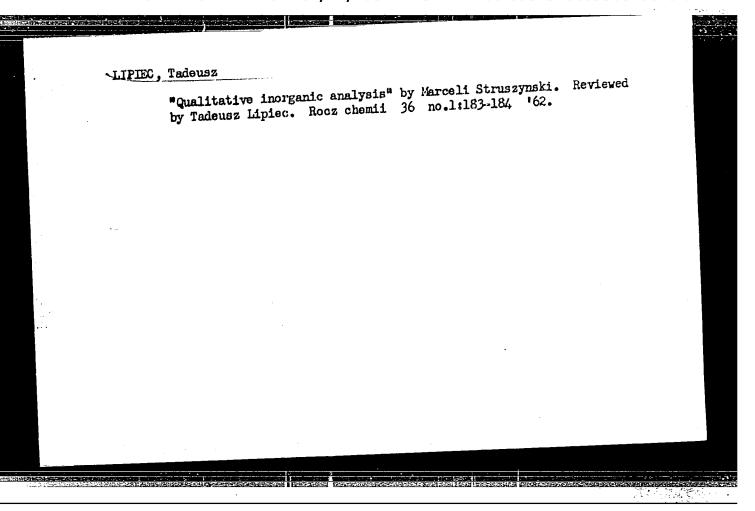
IESZ, Katarzyna; WIECZCRKIEWICZ, Helena; LIPIEC, Tadeusz

Indirect complexometric determination of thiocompounds.

I. Determination of thioacetamide (AKT), and thiourea (TM).

Chem anal 6 no.6:1033-1038 '61.

1. Department of Inorganic and Analytical Chemistry, Faculty of Pharmacy, Academy of Medicine, Lodz.



ZOMMER, Sabina; LIPIEC, Tadeusz

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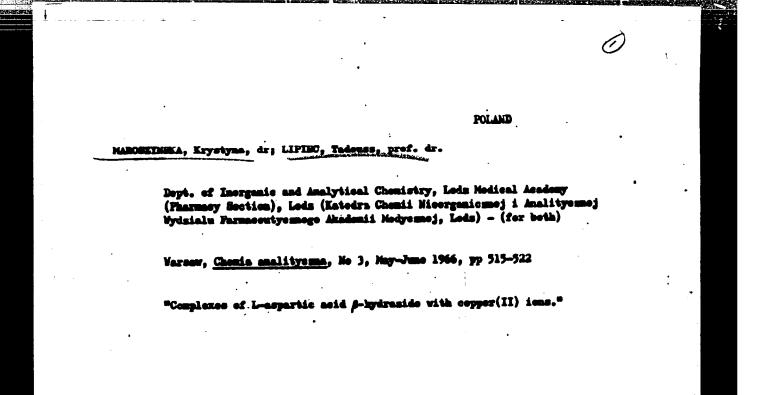
Determination of isonicotinic acid hydrazide in various substances and tablets with Cu2 ions in the presence of acetone. Acta pol. pharm. 20 no.3:229-232 163.

1. Z Katedry Chemii Nieorganicznej i Amalitycznej Akademii Medycznej w Lodzi. Kierownik: prof. dr T. Lipiec.

(INONIAZID) (CHEMICTRY, PHARMACEUTICAL)

(INDICATORRI AND REAGENTE) (COPPER)

(ACETONE) (TABLETS)



POLAND

LESZ, Katarsyna, dr; LIPIEC, Indones, prof. dr

Dept. of Inorganic and Analytical Chemistry, Lods Medical Academy (Pharmacy Section), Lods (Katedra Chemii Nicorganicanej i Analitycanej Vydnialu Parmacoutycanego Akademii Medycanej, Lods) - (for both)

Varsaw, Chemia analityczna, No 3, Nay-June 1966, pp 523-529

"Opertrephotometric studies of the reactions of THTD with heavy metal ions and their application in analysis. Part 1: Spectrephotometric studies of the reactions of THTD with copper(II) and silver(I) ions."

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L 00924-67					
ACC NR: AP6035457	(n)	SOURCE CODE: PO/00	99/66/040/004/0541	/0545 2/	
AUTHOR: Olesakles Analytical Chemist Medicine (Zaklad)	10%, Junion and Li	play, Tadayan of the yalcal Chemistry, Fa tedry Chemil Nicorga	Department of Inc.	C rganto and School of	
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Warsaw, <u>Roczniki</u> C	hemii, Vol 40, No A	4, 1966, pp 541-545.	•		,
Abstract (Authors!	English abstract r	modified): The deper	ndence of the		2.1
The instability co	l of thallium (I) on the communication of the commu	on the KSCN concentrations formed were d	tion was studied.		
nall-wave potentia	l of thallium (I) on the complete of the compl	on the KSCN concentr	ation was studied. stermined by	,8627	
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**EXAMINOVSKIY, I.A.; LIPIKHIN, N.P.; TIKHOMIROV, M.V.

Isotopic oxygen exchange between a free hydroxyl radical and water. Zhur.fiz.khim. 30 no.6:1429-1430 Je '56. (MLRA 9:10)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova, Moskva. (Oxygen--Isotopes) (Hydroxyl group)

LIPIKHIN, N. P., BAGDASARYAN, Z. A. and KASARNOVSKIY, I. A.

"A New Source of Free Hydroxyl Radicals in Solutions," report presented at the All-Union Conference on Chemical Kinetics, 23 June 1955.

Nature (British publication), Vol. 178, No. 4524, 14 July 1956, p. 101

LIPIKHIN, N., KASARNOVSKIY, I. and TIKHOMIROV, M.

e de la companya de

"Isotopic Exchange of Oxygen Between Free Hydroxyl Padicals and Water," Nature (British publication), Vol. 173, No. 4524, 14 July 1956.

English article.

Laboratory for Inorganic Chemistry, Karpov Inst. of Physical Chemistry, Mosecw

SOV/2c -100-5-30/60

· AUTHORS:

Kazarnovskiy, I. A., Corresponding Member, Academy of Sciences,

USSR, Lipikhin, N. P., Tikhomirov, M. V.

TITLE:

Isotopic Exchange of Oxygen Between the free Holioxy: Andreal and Water (Izotopnyy olmen kishroda mezhdu svobodagm gadrokoil agam

radikalom i vodoy)

PERCEOPICATOR

bokindy akademii anak most, 1950, Vol. 120, fir to perform sode

(ussr)

ABSTRACT:

The free hydroxyl radical plays an important rôle in radiation chemistry and in the theory of the oxidation processes, as it is an intermediate. Only few and contradicting data exist on its reactivity (Refs 1 - 4). The authors investigated the reaction mentioned in the title $(0^{16} \text{H} + \text{H}_20^{18} + \text{H}_30^{15} + 0^{18} \text{H}_3)$ Potassium ozonide was used as a new source of the free OH radical (Refs 5, 6). The potassium ozonide is instantaneously

decomposed by water at room temperature and at 0 under

violent oxygen separation. The reaction velocity of the hydroxyls

amounts to the 4-5fold of its dimerization velocity. The

experiments showed that the oxygen produced in this connection is enriched with the isotope 0¹⁸. The reaction was carried

Card 1/3

Taotopic Exchange of Oxygen Between the Free Hydroxyl Hadical and ever

out in the apparatus (Fig 1 A). Table 1 contains the results of the determination of the isotopic composition of the loxy: gen which escapes during the decomposition of potassion ozonide by heavy water, as well as the found degree of exwherge. The degree of exchange between the tree off-redired and water at +00 and at 0 amounts to approximately 30 and is independent of the pill of the colution, as is snown. That confirms the acqual exchange between the free the and the traand not that between the Gallions and the hydroxysta contact more the isotopic composition of the ovegen in an elevator ing peroxide was determined. It was found that the enrichment of H₂ O₂ with isotope O¹⁰ was several times greater than that of oxygen liberated directly during the decomposition of KO3 by menty water. Latte 2 short asta on the shotting consont ton of oxygen in the superexide. "besettem we say conclude that this oxygen is emighed with the tectore off by "told (3) I man on the average, "man really only nonlimiting that during the decommention of 194 . from the contexts notentry form by the Theory of the unthorne disprayed antomical restrict mark on the Cit All funna proceeding to a normal and put reservation to an

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804-70-120-5-50-6.

Isotopic Exchange of Cxygen Between the Free Hydroxyl Radical and later

Grottgus mechanism. There are I figure, 2 tables, and 9

references, 3 or which are Soviet.

Nauchno-issledovatel skiy fiziko-khimicheskiy institut im. ASSOCIATION:

L. Ya. Karpova

(Scientific Physicophemical Research Institute imeni Le fac

Karpov)

SUBMITTER: Pennary 18, 1958

1. Ozone-potassium compounds--Decomposition 2. Oxygen isotopes --Exchange reactions 3. Hydroxyl radicals--Sources 4. Hydroxyl radicals--Chemical effects 5. Heavy water--Chemical reactions

Card 3/3

KESSLER, Yu. M.; LIPIKHIN, N. P.; KUCHINSKIY, Ya. M.

Solubility in the system water - sulfuric acid - p-chlore-benzenesulfonic acid. Zhur. ob. khim. 32 no.12:3871-3876 D *162. (MIRA 16:1)

(Benzenesulfonic acid) (Sulfuric acid) (Solubility)

KAZARNOVSKIY, I.A.; LIPIKHIN, N.P.; KOZLOV, S.V.

Reaction of free hydroxyl radicals and oxygen with acetic acid vapors. Izv.AN SSSR Otd.khim.nauk no.5:956 My '63. (MIRA 16:8)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova.
(No subject headings)

KUCHINSKIY, Ye.M.; LIPIKHIN, N.P.; FLISSKIY, M.M.

Study of the rorous structure of graphite electrodes. Zhur.
prikl. khim. 37 no.2:460-462 F 164.

(MIRA 17:9)

EWG(j)/EWT(m)/EPF(c)/EWP(j)/EWP(t)/EWP(b) IJP(c)/RPL L 64176-65 UR/0062/65/000/007/1312/1312 JD/WW/RM ACCESSION HR: AP5019786 541.124 + 541.51 AUTHOR: Kazarnovskiy, I. A.; Lipikhin, N. P. TITLE: Interaction between free hydroxyl radicals and mechanism of formation and decomposition of hydrogen peroxide in solutions SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1965, 1312 TOPIC TAGS: hydroxyl radical, hydrogen peroxide, free radical ABSTRACT: The authors studied at 0° the reaction of hydroxyl radicals (generated by potassium ozonide as follows: $KO_3 + H_2O + KOH + OH + O_2$) with hydrogen peroxide solutions over a wide concentration range (from pure water to a 9.3 M solution of hydrogen peroxide) with vigorous stirring. The change in H2O2 content was determined by titrating with a 0.1 N KMnO4 solution. It is postulated that the formation of hydrogen peroxide from hydroxyl radicals occurs in accordance with the equations + $H_2O_2 + O_2$, not the equation $OH + OH \rightarrow H_2O_2$, employed in radiation chemistry. The four paths established by the authors for the reactions of hydroxyl radical (I) Card 1/2

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ACCESSION NR: AP5019786					
60H + 2H ₂ O + H ₂ O ₂ + O ₂ ; (II) be explained on the basis of	$40H \rightarrow 2H \ 0 + 0_2$; f the following	(III) and (IV) 20H+ six elementary steps	H ₂ O ₂ → 2H :	20 + 02 can	
0H+0 0+0 21	$0H \longrightarrow H_2O + O$ (1) $0H \longrightarrow HO_3$ (2) $1O_2 \longrightarrow H_2O_2 + O_3$ (3)	$OH + H_2O_2 \longrightarrow H_2O + HO_2$ $OH + HO_2 \longrightarrow H_2O + O_2$ $O + H_2O_2 \longrightarrow OH + HO_3$	(4) (5) (6)		Management of the contraction
"We thank M. I. Temkin for	carrying out the	kinetics calculation	ns." Ori	g. art.	
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ACCOUTATION: Fiziko-khimic	heskiv institut	im. L. Ya. Karpova (Physicoch	emical	
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LEFILIN, A.Ya., inzh.

Build lightning-proof electric transmission lines. Mekh. i elek.

sots.sel'khoz. no.5:40 '56.

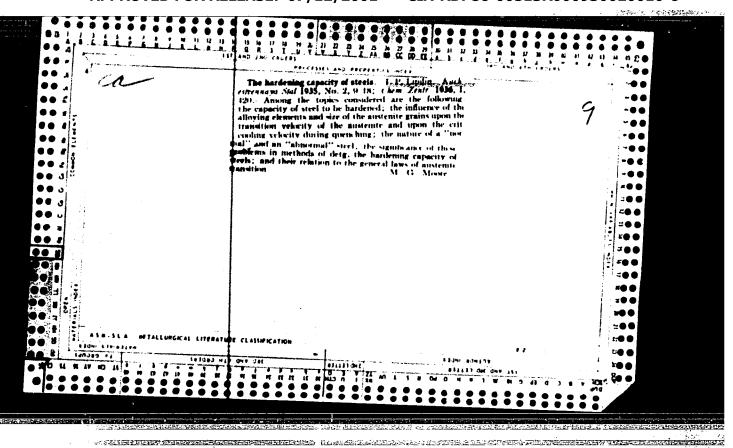
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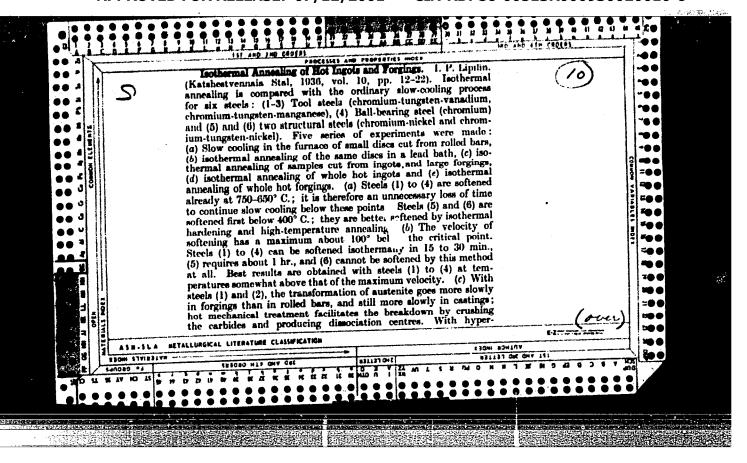
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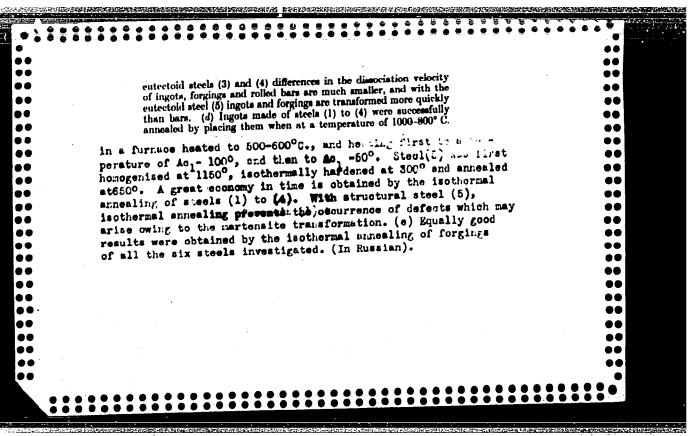
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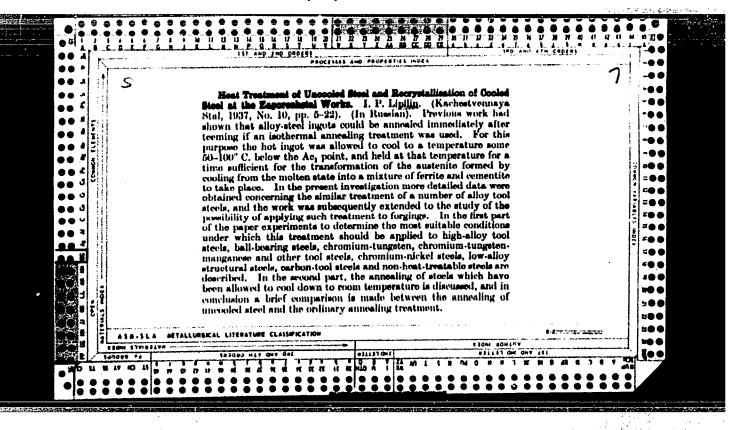
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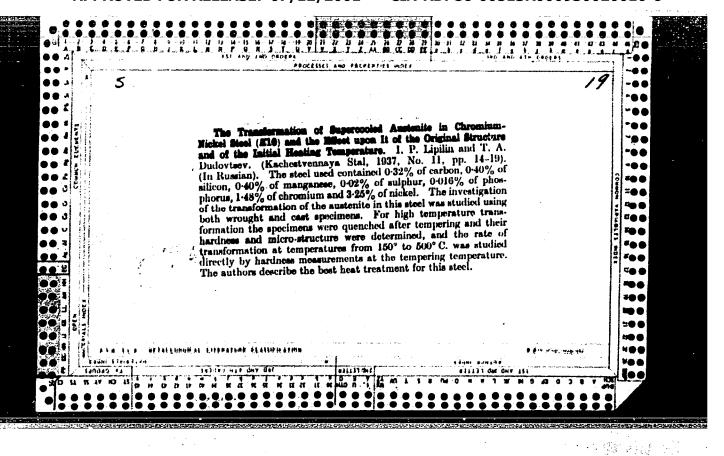


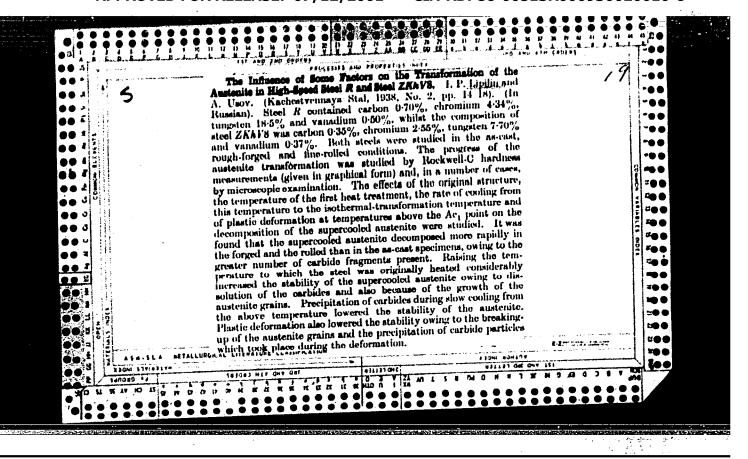


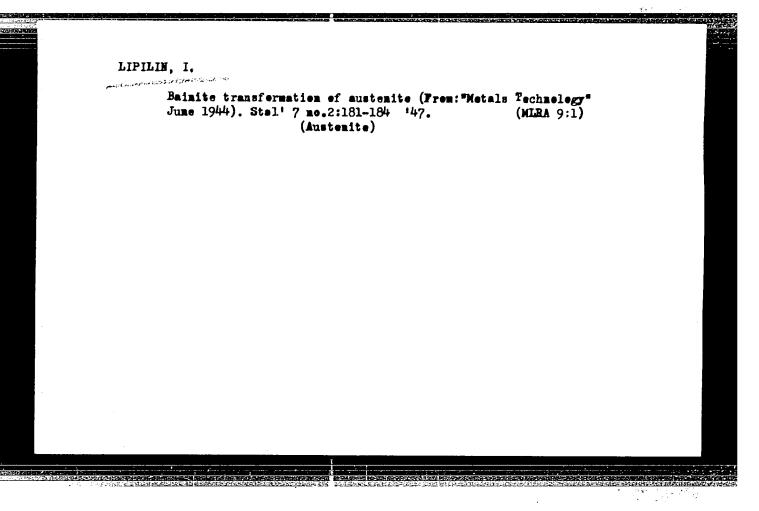


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SOV/137-58-10-21616

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p 166 (USSR)

Taran, V.D., Lipilin, I.P. **AUTHORS:**

Investigation and Selection of Novel Types of Steel for Drilling TITLE:

Bits (Issledovaniye i vybor novykh staley dlya burovykh dolot)

Materialy Mezhvuz. nauchn. soveshchaniya po vopr. novoy PERIODICAL:

tekhn. v neft. prom-sti, 1958, Vol 3, pp 97-110

ABSTRACT: Research was performed on novel types of high-strength

steel containing no expensive or scarce alloying elements. Two groups of steel were tested: 1) Steels containing 0.15-0.35% C (18KhGT, 20Kh, 20KhNZ, 30KhGS); 2) steels containing 0.28-0.55% C (30KhGS, 40KhN, 50KhGS). Investigations were carried out on specimens the size and shape of which corresponded to the cutting teeth in the central jaws (rollers) of a ZK-12 drilling bit. The specimens were subjected to impact tests as well as tests on impact wear. Best results were achieved with steels 20KhNZ and 30KhGS. Since steel 30KhGS does not contain any scarce elements, it was adopted for manufacture of drilling bits. After quenching and tempering operations at

temperatures of 880°C and 250°C, respectively, the steel Card 1/2

SOV/137-58-10-21616

Investigation and Selection of Novel Types of Steel for Drilling Bits

30 KhGS possesses a σ_b of 185 kg/mm^2 , a σ_s of 179 kg/mm^2 , and an a_k of 8.3 kgm/cm^2 . The structure of a carburized layer of steel 30 KhGS is normal, i.e., it does not contain any carbide network and is free of large carbide inclusions. Laboratory and shop tests revealed the advantages of steel 30 KhGS over the steels 18 KhGT and 12 KhN2. The authors emphasize the need for further research on methods of heat treatment of jaws made of 30 KhGS steel.

I.B.

- 1. Drills--Materials 2. Steel--Applications 3. Steel--Properties
- 4. Drilling machines---Equipment

Card 2/2

LIPILION UL

112-2-4174

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p.234 (USSR)

AUTHORS:

Todorov, G.A., Lipilin, N.G.

TITLE:

Improving the Process for Manufacturing Subminiature

Tube (Usovershenstvovaniye protsessa izgotovleniya

kolb pal'chikovykh lamp)

PERIODICAL: Sb. rats. predlozh. M-vo radiotekhn. prom-sti SSSR, 1955, Nr 1, p.23

ABSTRACT:

Bibliographic entry.

Card 1/1

LIPILIN, S.Z. Improving mine operations. Ugol' Ukr. 4 no.8:11-12 Ag '60. (MIRA 13:9) 1. Upravlyayushchiy trestom Sverdlovugoli. (Donet Basin -- Coal mines and mining)

CIA-RDP86-00513R000930020010-6" **APPROVED FOR RELEASE: 07/12/2001**

LIPILIN, S.Z. Work of B.Dubinskii's brigade of communist labor. Ugol' 35 no.8:2223 Ag '60. (MIRA 13:9) 1. Upravlyayushchiy trestom Swerdlovugol' Luganskogo sovnarkhoza. (Donets Basin--Coal mines and mining--Labor productivity)

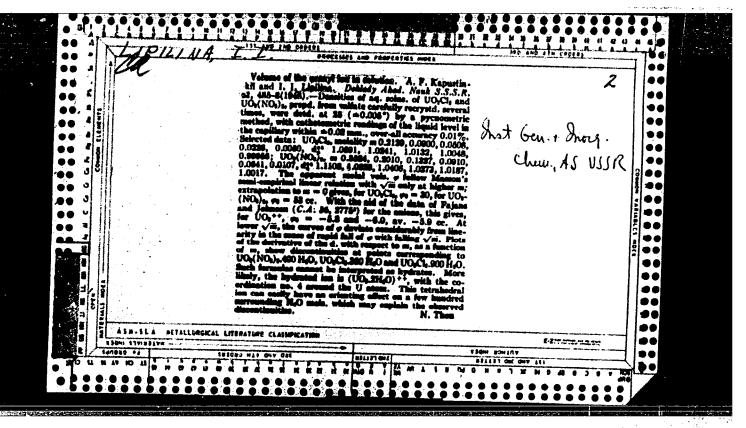
MOSKVICHEV, Ye.I.; KAPIT, B.F.; LIPILIN, V.A.

Using the method of least squares to process telluorgrams.

Geofiz. razved. no.9:74-80 '62. (MIRA 15:9)

(Electric prospecting)

APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930020010-6"



LIPILINA, I.I.

USSR/Chemistry - Physical chemistry

Card 1/1 : Pub. 22 - 26/44

Authors : Lipilina, I. I., and Samoylov, O. Ya.

Thermochemical study of the structure of diluted aqueous uranyl

ritle chloride and uranyl nitrate solutions

Periodical : Dok. AN SSSR 98/1, 99-102, Sep 1, 1954

Abstract: The integral heats of solution of UO2Cl2 • 3H2O and UO2(NO3)2 • 6H2O, were measured in H2O and in aqueous acid solutions by the thermochemical method ordinarily used for the determination of thermochemical method ordinarily used for the determination of coordination numbers of ions in aqueous solutions. The relation

between the heats of solution of the salts and the acid concentration in the solvent was established. It was also established that the structure of diluted solutions corresponds to the least possible change in the structure of H₂O, i.e., during formation of diluted solutions the structure of H₂O remains basically

unchanged. Fourteen references: 7-USSR; 4-USA and 3-German (1909-1953). Table; graph; drawing.

Institution : Acad. of Sc. USSR, The N. S. Kurnakov Institute of General and Inorganic Chemistry

Presented by : Academician I. I. Chernyaev, April 10, 1954

USSE/Chemistry - Inorganic chemistry

Card 1/1

Pub. 22 - 28/62

Authors

: Lipilina, I. I.

Title

Coordination number and disposition of NO3 ion in the structure of a diluted water solution

Periodical : Dok. AN SSSR 102/3, 525-528, May 21, 1955

Abstract

Employing a thermochemical method which was previously applied in the determination of coordination numbers for various monoatomic ions and the triatomic UO2 ion the author established the coordination number for the tetratomic NO3 ion and explains the structure of diluted aqueous solutions containing this particular ion. The formula which makes it possible to find the coordination number of the NO- ion is given. The characteristic structural features of the diluted water solution, as observed during the experiments, are described. Fifteen references: 10 USSR, 1 Norwegian, 1 German, 2 USA and 1 Finnish (1932-1943). Drawings.

Institution:

Acad. of Sc., USSR, The N. S. Kurmakov Inst. of Gen. and Inorgan. Chem.

Presented by: Academician I. I. Chernyayev, Mcvember 27, 1954

LIPILINA, I. I. "Investigations of the Density, Heat Capacity, Solution Heat, and Structure of Aqueous Solutions of Chloride and Mitrate of Uranyl." Inst of General and Inorganic Chemistry imeni N. S. Kurmakov of the Acad Sci USSR, Moscow, 1955 (Dissertations for Degree of Candidate of Chemical Sciences)

So: Knizhnaya Letopis! No. 26, June 1955, Moscow

Heat capacity of uranyl chloride and nitrate aqueous solutions and apparent melal heat capacity of the uranyl ion. Dekl.AM SSSR 104 no.2:264-267 S '55.

1.Chlen-kerrespendent AM SSSR (for Kapustinskiy). 2.Institut ebshchey i neergamicheskey khimii imeni N.S.Kurnakeva Akademii nauk SSSR.

(Uranyl salts) (Specific heat)

LIPICINA, I. L.

Category: USSR / Physical Chemistry

Thermodynamics. Thermochemistry. Equilibrium. Physico-

chemical analysis. Phase transitions.

B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29948

Author : Kapustinskiy A. F., Lipilina I. I.

: Academy of Sciences USSR Inst

: Density of Aqueous Solutions and Apparent Molar Volumes of Uranyl Title

Nitrate

Orig Pub: Izv. AN SSSR, Otd. khim. n., 1956, No 6, 649-657

Abstract: Investigation, at 25°, of density of aqueous solutions of uranyl nitrate (I) in the concentration range from 0.7 to 52.4% by weight. Determinations were made by means of a quartz pycnometer with a capillary neck; the determination procedure is described. Accuracy of the measurements is evaluated at 0.001\$, summative accuracy of determination of density of I was of 0.01%. From experi-

mental data was calculated the apparent molar volume (AMV) of I

: 1/2 Card

-67-

Category: USSR / Physical Chemistry

Thermodynamics. Thermochemistry. Equilibrium. Physico-

chemical analysis. Phase transitions.

B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29948

in infinitely dilute aqueous solution $\varphi_V^0 = 65.9$ ml/mole. An equation is given which correlates φ_V I with molar concentration: $\varphi_V = 65.9 + 5.23$ V m. MAV of $U_0 \rightarrow 100$ ion in infinitely dilute solution was calculated and found to be 7.1 ml/g-ion.

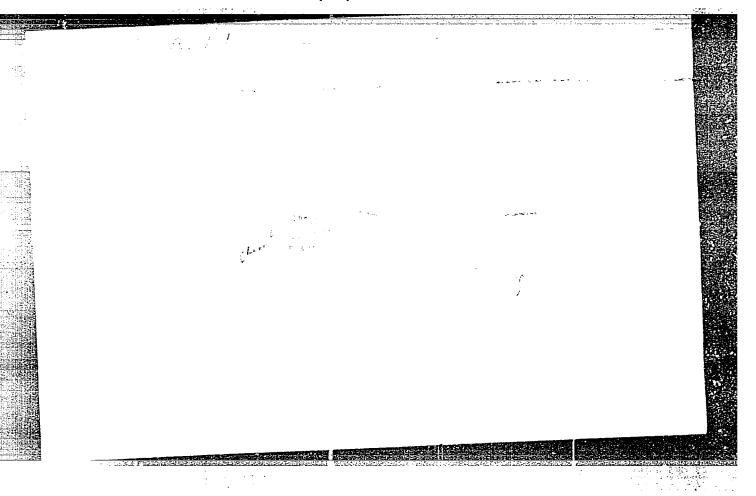
Card : 2/2

-68-

BERNAL, J.D.; LIPILINA, I.I., [translator]

Role of water in crystals. J.D.Bernal [Translated from the French by I.I.Lipilina]. Usp.khim.25 no.5:643-661 My '56. (MIRA 9:9)

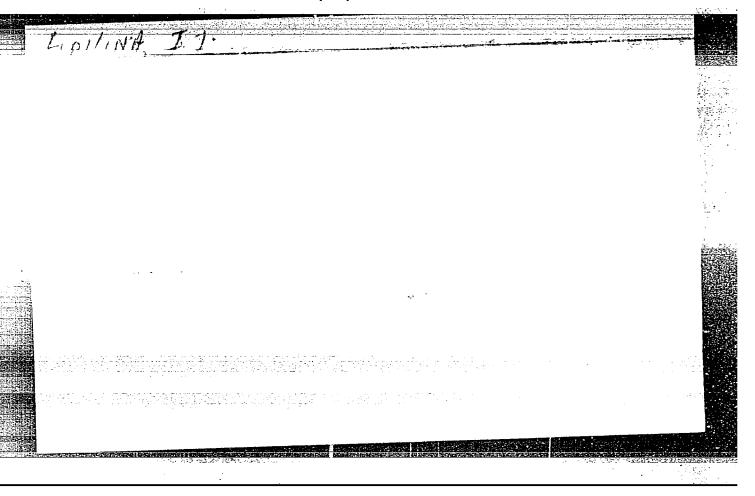
(Crystals)



Cold calorimeter with sensitivity of 0,00005° for studying the thermochemistry of solutions. Investigation of the heat capacity of cestum iodide solutions with a tolerance of 0,03% (with of cestum iodide solutions with a tolerance of 0,03% (with English summary in insert). Zhur.fiz.khim. 30 no.4:896-900 (MLRA 9:9) Apr. *156.

1. Akademiya nauk SSSR, Institut obshchey i neorganicheskoy khimii imeni N.S. Eurnakova, Moskva.

(Calorimeters) (Solution (Chemistry))



AUTHOR:

Lipilina, I. I.

307/20-122-2-20/42

TITLE:

The Constitution of Polynuclear Double-Charge Uranium Oxygen in the Aqueous Solution Complexes and Their Arrangement Structure (Stroyeniye mnogoyadernykh dvukhzaryadnykh urankislorodnykh kompleksov i ikh razmeshcheniye v strukture

vodnogo rastvora)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 2,

pp 238 - 241 (USSR)

ABSTRACT:

Uranyl ${\rm UO_2}^{2+}$ has the coordination number 6 in diluted

aqueous solutions which represent 2-1-electrolytes, and is placed in the "channels" of the water structure along the axis of the channel (Ref 1). The hydrolysis leads to the formation of polynuclear complexes in the solution (Refs 2-7); evidences bearing on the existence of ions ${\rm U_20_5^{2+}}$ and ${\rm U_30_8^{2+}}$ are the most probable. In the case that 2 (or 3) uranyl ions, each of them surrounded by 6 water molecules, are placed in 2(or 3) adjoining channels of

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one layer of the water structure, the hydrolytic reactions

The Constitution of rolynuclear Double-Charge Uranium Oxygen SOY/20-122-2-20/42 Complexes and Their Arrangement in the Aqueous Solution Structure

 $2U0_{2}^{2+} + H_{2}0 \longrightarrow U_{2}0_{5}^{2+} + 2H^{+}; 3U0_{2}^{2+} + 2H_{2}0 \longrightarrow U_{3}0_{8}^{2+} + 4H^{+}$ can proceed. The author's view is that ${\tt U_20_5^{2+}}$ and ${\tt U_30_8^{2+}}$ possess in the solution a structure as seen from figure 1b and 2b. The 6 water molecules cannot any more be placed around the uranyl which has entered into the complex ion. Each uranyl, however, will be surrounded by water molecules in the equatorial plane, and that according to a type which most closely approaches the arrangement around the 1 uranyl ion in the solution. There will be 8 water molecules around $U_20_5^{2+}$ in the equatorial plane, but 12 around $U_30_8^{2+}$ (Figs 1b and 2b, which are drawn true to scale). The coordination number of the peripheral uranyls falls to 5 in the polynuclear complexes, for the central atom it is 6 (4 water molecules in the equatorial plane and 2 oxygen atoms). The number of water molecules around the complex which

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The Constitution f Polynuclear Double-Charge Uranium Oxygen S07/20-122-2-20/42 Complexes and Their Arrangement in the Aqueous Solution Structure

contains n uran atoms is 4 n. The general formula for the composition of two-row positive uranium-oxygen-complexes which have been built up in the adjoining water channels according to the principle of a linear uranyl chain, and which are connected by oxygen atoms, is $[U_nO_3^n-1]^{2+}(1)$. It is possible to give it a shape from which it can be seen that the complexes are built up from uranylene: $\left[nU_{0}^{2+}\right]^{2+}$. $(n-1)_{0}^{2-}$ 2+ (2). Here, n means the number of the uranium atoms or of the uranyl ions. The conception of the author concerning the linear structure of $\mathbb{U}_2^{0.2+}$ and of $U_3 O_8^{2+}$ with a coordination UO_2 -20, $4H_2O$ for the uranyls in the center of the chain and a coordination ${\rm UO_2-0,\ 4H_2O}$ for the uranyls on the ends of the chain does not agree with the conception of reference 6. With an increasing pH of the uranyl-salt-solutions no positive, but negative uranium oxygen complexes are formed. The author discusses the experimentally verified compounds: Sodium uranate,

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The Constitution of Polynuclear Double-Charge Uranium Oxygen 307/26-127-2-20/42 Complexes and Their Arrangement in the Aqueous Solution Structure

-diuranate, calcium tetrauranate, sodium hepta- and octa-uranates (Refs 7,11,12). The polynuclear uranium-oxygen-anions ought to be considered as uranyl-oxygen-complexes. The hexavalent uranium is able to form different uranium oxygen configurations with an uranyl-bond in directions vertical to each other. Linear configurations arise if the uranyl-bond exists in one direction only. The above mentioned polynuclear complexes provide examples of complicated configuration if the uranyl bond is present in two directions vertical to each other. There are 3 figures and 16 references, 1 of which is Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii im.N.S.Kurnakova Akademii nauk SSSR (Institute of General and Inorganic Chemistry imeni N.S.Kurnakov, AS USSR)

PRESENTED: May 6, 1958, by I.I.Chernyayev, Member, Academy of Sciences, USSR

SUBMITTED: April 19, 1958

Card 4/4

5(2)

PHASE I BOOK EXPLOITATION SOV/3401

Lipilina, Irina Ivanovna

- Uranil i yego soyedineniya (Uranyl and Its Compounds) Moscow, Izd-vo AN SSSR, 1959. 314 p. 3,000 copies printed.
- Resp. Ed.: A.F. Kapustinskiy, Corresponding Member, USSR Academy of Sciences; Ed. of Publishing House: D.N. Trifonov; Tech. Ed.: I.F. Kuz'min.
- Sponsoring Agency: Akademiya nauk SSSR. Institut obshchey i neorganicheskoy khimii im. N.S. Kurnakova.
- PURPOSE: This book is intended for chemists specializing in general and inorganic chemistry.
- COVERAGE: This is an extensive study of uranyl and uranium compounds of predominantly uranyl content. It points out that the properties of uranium compounds are closely associated with those of uranyl and that aqueous solutions of uranyl salts have yielded much

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Uranyl and Its Compounds

SOV/3401

valuable data on uranyl, uranyl oxides, and uranyl anions. It also points out that the tendency of uranyl to form difficultly soluble compounds, and its susceptibility to extraction by organic solvents and to ion exchange makes it valuable for the extraction of uranium from ores and for the chemical purification of irradiated nuclear fuels. The author began this study in 1946, at the Institute of General and Inorganic Chemistry imeni N.S. Kurnakov, Academy of Sciences, USSR. He thanks I.I. Chernyayev, Academician, A.F. Kapustinskiy and G.V. Bokiy, Corresponding Members of the Academy of Sciences, USSR, and M.A. Klochko, O.Ya. Samoylov, I.N. Lepeshkov, and V.A. Golovna, Doctors of Chemical Sciences. There are 591 references: 200 Soviet, the remainder English, German, French, Norwegian, Italian, Swedish and Yugoslavian.

TABLE OF CONTENTS:

Foreword by the Author

3

Ch. I. Uranyl and Its Properties

1. Brief outline of the development of the chemistry of uranium.

Position of uranium in the periodic system of D.I.Mendeleyev

Card 2/8

BERNAL, Dzh.D. [Bernal, J.D.]; LIPILINA, I.I. [translator]

Geometrical approach to the structure of liquids. Usp.khim. 30
no.10;1312-1323 0 '61.

(Liquids)

(Liquids)

VORONKEVICH, I.V.; AFANAS YEVA, Z.P.; BUTSEVICH, L.A.; LIPILINA, N.I.

Effect of fertilizer on soil population of actinomycetes antagonistic to phytopathogenic bacteria [with summary in English]. Mikrobiologiia 27 no.6:720-723 N-D 158. (NIRA 12:1)

1. Moskovskaya stantsiya Vsesoyuznogo nauchno-issledovatel'skogo instituta zashchity rasteniy.

(ACTINOMYCES, in soil, eff. of fertilizers on strains antag. to phytopathogens (Rus))

(FERTILIZERS, effects, on Actinomyces antagonistic to phytopathogens in soil (Rus))

(SOIL, microbiology.

Actinomyces, eff. of fertilizers on strains antagonistic to phytopathogens (Rus))

LIPILKIN, A. N.

Doc Tech Sci

 $D_{\hbox{\scriptsize issertation:}}$ "Investigation of the Hydrodynamics of Heat Exchange in Molecular Solutions." 30/6/50

Moscow Technological Inst of Food Industry

SO Vecheryaya Moskva Sum 71

LIPILKUM, I. H.:

LIPILKINA, I. W.: "The effect of bear alcohol, onions, horseradish, and cabbage fuice on the motor-evacuatory reaction of the gastrointestinal tract (roentgenological investigation)." First beningred Medical Inst Lent Academician I. F. Pavlov. Leningrad, 1996.
(Dissertation for the degree of Gandidate inMedical Sciences)

SO: Knizhnaya Letopis', No 36, 1956, Moscow.

L 08213-67 EWT(m)/EWP(t)/ETI IJP(c) JD/WB	
ACC NR. AP6014504 (A,N) SOURCE CODE: UR/0317/66/000/004/0063/0066	
AUTHOR: Lipin, A. (Candidate of chemical sciences; Engineer; Lieutenant colonel); Golovkina, N. (Engineer); Natveyeva, N. (Engineer)	
ORG: None	
TITLE: Use and application of corrosion protection	
SUURCE: Tekhnika i vooruzheniye, no. 4, 1966, 63-66	-
TOPIC TAGS: corrosion protection, electrolyto, electrolytic deposition, steel	
ARSTRACT: Various considerations on corrosion and preservation of metals are presented on the basis of experimental research and practical applications. The mechanism of electrochemical reactions in zinc and cadmium coatings, in phosphate and other oxide films is explained and illustrated. It is mentioned that the corrosion of cadmium coated surfaces can be 0.5 mm deep. The destruction of zinc films proceeds with a speed of 0.4 to 4 microns per year. In general, the electrolytic processes are more effective. A cadmium-zinc electrolyte containing in one liter 14 g of zinc sulphate, 12 g of cadmium sulphate, 55 g of caustic potash and 55 g of Trilon A is considered the most effective. The effect of the current density and of the concentration of zinc salts on the cathode coatings is evaluated and graphically illustrated. The cadmium-zinc electrolyte has the same throwing power as the potassium cyanide electrolyte. The favorable effect of Trilon A on the increase of the catode current density is stressed. The stability of cadmium-zinc electrolyte is high. The physical properties of cadmium-zinc are characterized by a microhardness of about 40 kg/sq mm and by the disappearance of porosity in layers of 3 microns and	
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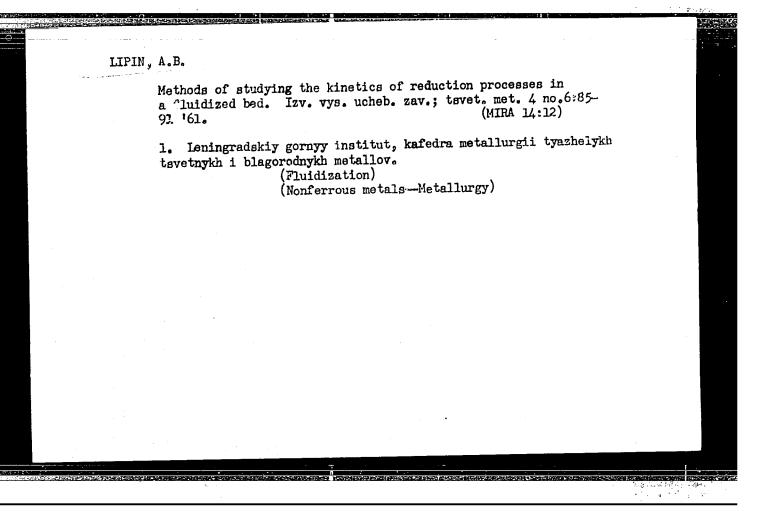
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ACC NR: AP6014504

and thicker. A pyrophosphate electrolyte (9 gr of stannic sulfate, 8 gr of zinc sulphate, 190 g of sodium pyrophosphate, 1 g of citric acid and 1 g of ammonium nitrate per one liter) is considered the most stable for obtaining a tin-zinc coating. Better results were obtained with electrolytes where sulphates were replaced by stannic chlorides. The Trilon pyrophosphate electrolyte is considered the best for obtaining tin-cadmium coatings. One liter of this electrolyte contains 12 to 45 g cadmium sulphate, 15 g of stannic chloride, 60 g of sodium pyrophosphate, 25 to 85 g of Trilon A, 10 g of phenol and 5 to 8 ml of triethanolamine. Its high throw power and increase of current density are stressed. Corrosion-resistant properties of various coatings were tested and compared. The best results were obtained with cadmium-zinc coatings containing 18 to 20% of zinc. In general, mechanical strength of metals were little affected by coatings. Some examples for certain types of steel are cited. The cost effective phosphate processes are summarized in a table indicating electrolyte solutions, processing temperatures and duration. In general, combined phosphate and cadmium films resist better against corrosion than ordinary phosphate coatings (as shown in a comparative diagram). Orig. art. has: 3 diagrams and 1 table.

SUBM DATE: SUB CODE: 07, 13/



KHALAIMOVA, N.I., ekonomist-planovik kolkhoza; LIPIN, A.D.

Taking quantity and quality into account. Nauka i pered. op. v (MIRA 10:6).

1. Starshiy nauchnyy sotrudnik khlopkovoy zonal'noy opytnoy stantsii (TANIIZ).

(Wages) (Collective farms)

BUKIN, G.I., inzh.; KLAPCHUK, L.D., inzh.; LIPIN, A.I., inzh.

Automatic control of the waterside pumping station of a state regional electric power station. Elek.sta. 29 no.1:82-85 Ja '58.

(MIRA 11:2)

(Automatic control) (Pumping stations)

MIXHAYLOV, A.A., kand.tekhn.nauk; LIPIN, A.I., kand.khim.nauk

Investigating the performance of corroded units of hydraulic and pneumatic systems. Vest.mashinostr. 42 no.7:38-41 Jl
162. (MIRA 15:8)
(Oil-hydraulic machinery—Corrosion)

(Pneumatic machinery—Corrosion)

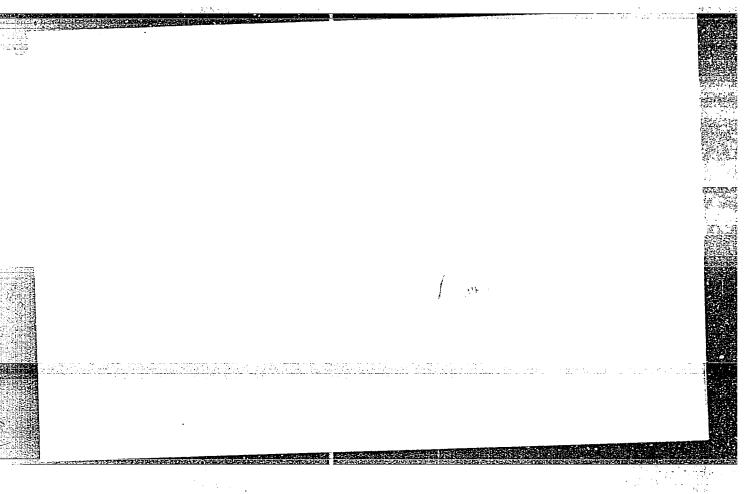
LIPIN, A.I., Cand Chem Sci -- (diss) "Study of the process

the Author
of deposition of electrolytic coatings upon aluminum alloys."

[Mos], 1957, 11 pp (Acad Sci USSR, Inst of Physical Chemistry).

(KL, 1-58, 115)

- 13-



137-58-6-13055

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 268 (USSR)

Shluger, M.A., Lipin, A.I. AUTHORS:

Attachments for Depositing Heavy Chrome Coatings on Parts TITLE:

(Prisposobleniya diya osazhdeniya na detalyakh tolstykh khrom-

ovykh pokrytiy)

V sb.: Teoriya i praktika elektrolit. khromirovaniya. Mos-PERIODICAL:

cow, AN SSSR, 1957, pp 215-223

Presentation of experiences in the application of some sus-ABSTRACT:

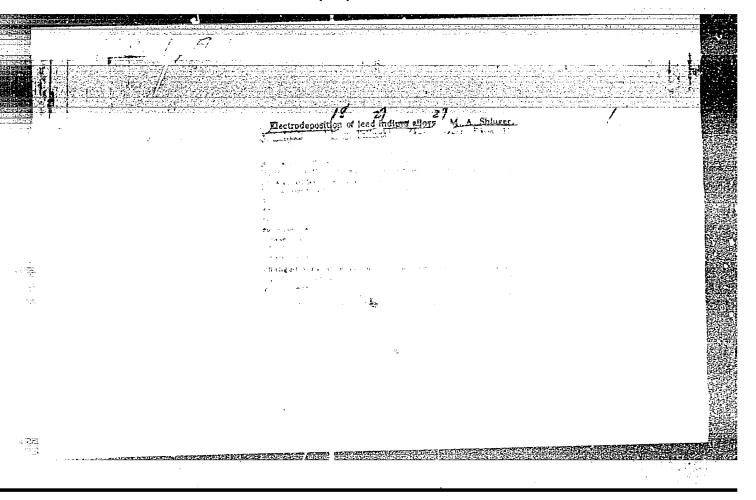
pended attachments for the production of a uniform deposition of heavy coats of Cr 0.1-0.2 mm thick. Such chrome plating is achieved by horizontal positioning of an article in the cell and a periodic 90° rotation of it every 35-40 min with the help of the attachments developed. Flat anodes are placed at a distance of 100-200 mm from the surface to be chrome-plated. A method for the selection of an optimum configuration of the anode for

dimensionally controlled chrome plating is included.

P.S. 1. Chromium--Electrodepositon 2. Chromium plating

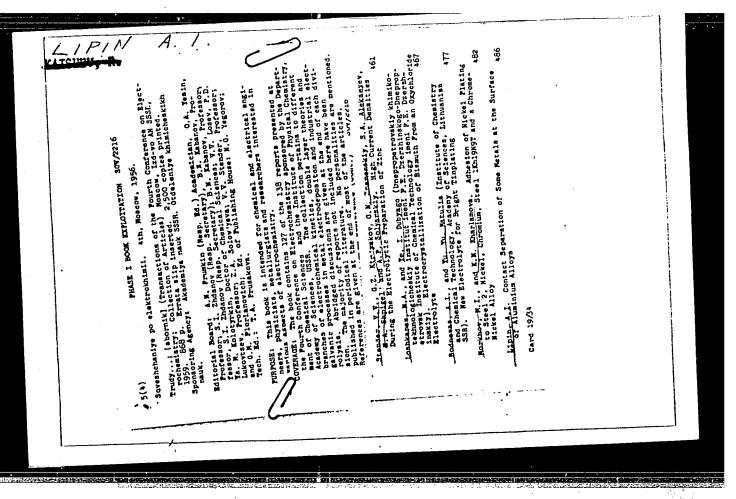
--Equipment

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Experience along the process of the control of the

"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R000930020010-6



5(4) AUTHOR:

Lipin, A. I.

SOV/62-59-9-6/40

TITLE:

Determination of the Cohesion of Metallic Coatings on Alien

Lining by the Electrochemical Means

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 9, pp 1546-1552 (USSR)

ABSTRACT:

An electrochemical determination of the cohesion of the electrolytic precipitate on the basic metal can be developed from the dependence of the polarization of the electrode from the true current density considering the increase of the active cathode surface. The active participation of the cathode surface is determined by means of polarization at the moment of the switching-on of current (Vagramyan, Tsareva, reference 2). In the present paper the cohesiveness of an electrolytic zinc precipitate on the aluminum alloy AK-4 was investigated. The determination of the polarization at the moment of switching-on the current and the subsequent process of electrolysis is carried out with a device which is schematically represented on figure 1. The jump in potential of the electrode in switching-on the current was recorded with an oscillograph. The steady value

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SOV/62-59-9-6/40

Determination of the Cohesion of Metallic Coatings on Alien Lining by the Electrochemical Means

of the potential was determined with a potentiometer of the PPTV-1-type, that of the variation of the potential during electrolysis with a cathode voltmeter. Zinc was precipitated on the aluminum alloy AK-4 from the following solution: fluoboric acid zinc 200 g/l and fluoboric acid ammonium 30 g/l + licorice root 0.5 g/l at 20° and at an amperage of 5 a/dm² with respect to the geometrical surface of the electrode. The shape of the jump in potential at switching on of the current depends on the preliminary treatment of the metal surface and the latter, at the switching off and on, depends on the duration of the current-free state between the switchings (Figs 2,3,4). The longer the time between the switchings the lower is the jump potential, i.e. during the switching-on times zinc precipitates on the oxide-layer coated aluminum alloy. During the current-free time the oxide film solves and the zinc-coating is in direct contact with the aluminum. In the further process zinc is precipitated on zinc in the electrolysis. In this case the jump in potential is not great. The cathode surface has become activated by the

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SOV/62-59-9-6/40

Determination of the Cohesion of Metallic Coatings on Alien Lining by the Electrochemical Means

preliminary treatment. The jumps in potential show a similar character after an anodic solving of the zinc. The active surface of the electrode was calculated after such a treatment and the author lists the optimum conditions for the preparation of solidly adhering zinc coatings on the aluminum alloy AK-4. There are 7 figures and 5 references, 4 of which are Soviet.

ASSOCIATION:

Institut fizicheskoy khimii Akademii nauk SSSR (Institute of

Physical Chemistry of the Academy of Sciences, USSR)

SUBMITTED:

December 6, 1957

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Card 3/3

5.2200, 18.7400

78225 sov/80-33-3-26/47

AUTHORS:

Lipin, A. I., Livshits, M. M.

TITLE:

The Effect of Organic Admixtures on the Rate of Nickel

Reduction in Acid and Alkaline Solutions

PERIODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 3, pp

658-662 (USSR)

ABSTRACT:

Samples of type 20 steel were chemically nickel-plated in acid solutions (30 g/liter nickelous chloride and

10 g/liter calcium hyposulfite) and in alkaline

solutions (20 g/liter nickelous chloride and 10 g/liter calcium hyposulfite) containing various organic additives, and the effect of the latter on the rate of nickel reduction was studied. The plating in acid solution was made at $90-92^{\circ}$ C, initial pH = 5.5-6.0; in alkaline solution the conditions were 86-87° C, pH = 9.0-9.5. The rate of nickel reduction was determined by weighing the samples; potentiometer

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LP-5 was used in the measuring of pH. The effect of

CIA-RDP86-00513R000930020010-6" APPROVED FOR RELEASE: 07/12/2001

The Effect of Organic Admixtures on the Rate of Nickel Reduction in Acid and Alkaline Solutions

78225 **sov**/80-33-3-26/47

the following additives was investigated: saturated monocarboxylic acids (formic, acetic, and isovaleric); saturated and unsaturated dicarboxylic acids (malonic, succinic, adipic, azelaic, maleic); hydroxy acids (malic, tartaric); and amino acids (aminoacetic, **a** -aminosuccinic). The addition of monocarboxylic acids (particularly acetic acid) to the acid plating solution gave a high rate of nickel reduction during the first hour of plating. In case of dicarboxylic acids, the rate of reduction decreased with increasing number of methylene groups in the acid molecule. The highest rate of nickel reduction was obtained with aminoacetic acid. The addition of malic acid gave a fair rate of reduction, and that of tartaric acid, a very low rate. The pH decreased during plating from 6 to 0.5, depending on the additive. In case of the two most effective acids, acetic and aminoacetic, pH decreased to 3.5-4 during the first two hours and

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The Effect of Organic Admixtures on the Rate of Nickel Reduction in Acid and Alkaline Solutions

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remained for a long time at this level: The above acids evidently acted as buffers. In alkaline plating solutions, the nature of the additive had no substantial effect on the rate of nickel reduction, with the exception of maleic acid which gave a very low rate of reduction. The pH decreased from 9.5-10 to 7-8 for all of the investigated acids; hence, their action in alkaline solutions cannot be explained by a buffering effect. There are 2 figures; plained by a bufferences, 1 U.S., 2 Soviet. The U.S. reference is: C. Mehjers, A. Brenner, Plating, 44, 12, 1297-1305 (1957).

SUBMITTED:

June 19, 1959

Card 3/3

s/193/61/000/003/006/009 A004/A101

AUTHOR:

Lipin, A. I.

TITLE:

Reconditioning of worn parts by chemical nickel-plating

PERIODICAL: Byulleten* tekhniko-ekonomicheskoy informatsii, no. 3, 1961, 34 - 36

The author comments on the deficiencies of electrolytic chrome-plating for parts with complex configuration and points out that the reconditioning of parts by chemical nickel-plating makes it possible to obtain deposits which The throwing power are uniform in thickness over the whole component surface. of the electrolyte which is of utmost importance in electrolytic chrome-plating does not affect the deposition of nickel-plating which is practically taking place at a uniform rate on all parts of the component being in contact with the solution Variations in thickness of the deposited layer amount to 3 - 10%, which is due to the temperature fluctuations of the bath. If this temperature is maintained with an accuracy of $\pm 2^{\circ}$ the nonuniformity of the layer will not exceed 3 - 4 μ at a total thickness of the layer in the range of 35 - 40 μ . The high hardness acquired by chemically nickel-plated parts results mainly from the heat treatment the parts are subjected to after the plating process. Table 1 shows the hardness of

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s/193/61/000/003/006/009

Reconditioning of worn parts by chemical nickel-platingA004/A101

the nickel-plated coats produced in acid or alkali solutions depending on the temperature of heat-treatment for 1 h. Tests which are carried out to establish the resistance to wear of nickel-plated steel specimens in pairs with cast iron, at a sliding speed of the specimens of 0.47 m/sec, a specific pressure of 25 kg/ cm² and lubrication with AK-10 automobile oil ("avtol") showed a rapid running-in ability of the mating pair which is characteristical for nickel platings. The least wear on cast iron was shown by nickel-phophorus platings heattreated at 350-450°C. Deposits from acid solutions were less subjected to wear than those from alkali solutions. A considerable increase in the adhesion of deposits to aluminum alloys is taking place at heat-treatment temperatures in the range of 200 - 220°C for 2 - 3 h. Table 2 shows the results of stand tests carried out with parts of complex configuration reconditioned by chemical nickel-plating. It follows from the table that during the test period the magnitude of wear did not exceed 0.005 mm and was commensurable with the wear of parts without plating. Service tests of automobile parts proved that the wear of reconditioned parts was by 20 - 30% lower in comparison with new ones. The tests carried out showed that a sufficient activation of the component surface is obtained by treatment in hydrocloric acid or in a solution composed of hydrochloric and hydrofluoric acid. A good adhesion of the plating on bronze and brass parts is obtained by pretreating them in nitric

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"APPROVED FOR RELEASE: 07/12/2001

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S/193/61/000/003/006/009 A004/A101

Reconditioning of worn parts by chemical ...

acid. There are 2 tables.

Table 1:

heat-treatment tempera- ture, in degrees	hardness of platings produced from solutions, kg/mm.			
	acid	alkali		
without heat-treat-				
ment	450 - 500	450		
100	450 - 500	450 - 500		
200	450 - 520	500 - 630		
300	660 - 700	650 - 750		
400	900 - 920	710 - 750		
500	800 - 850	600		
600	620 - 630	450 - 500		

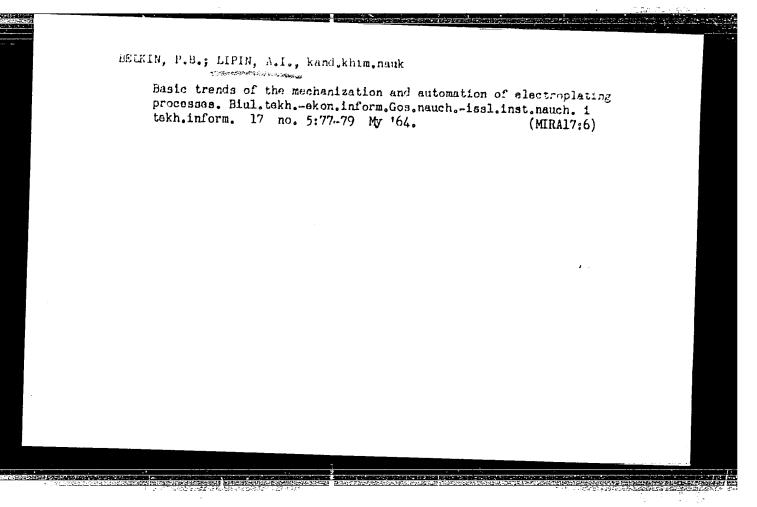
Card 3/4

LIPIN, Aleksandr Ivanovich, inzh.; SHLUGER, Mikhail Aleksandrovich, kand. tekhn. nauk; RYABOY, Ayzik Yakovlevich, inzh.; SHOVIK, ILYe., inzh., ved. red.; SOROKINA, T.M., tekhn. red.

[Reducing the loss of chromium anhydride in electrolytic chromium plating. Chromium plating from a cold tetrachromate electrolyte]Umen'shenie poter' khromovogo angidrida pri elektroliticheskom khromirovanii. Khromirovanie iz kholodnogo tetrakhromatnogo elektrolita. [By]A.IA.Riaboi, M.A.Shluger.
Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958.
16 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 13. No.M-58-203/21) (MIRA 16:3)
(Chromium plating) (Electrolytes)

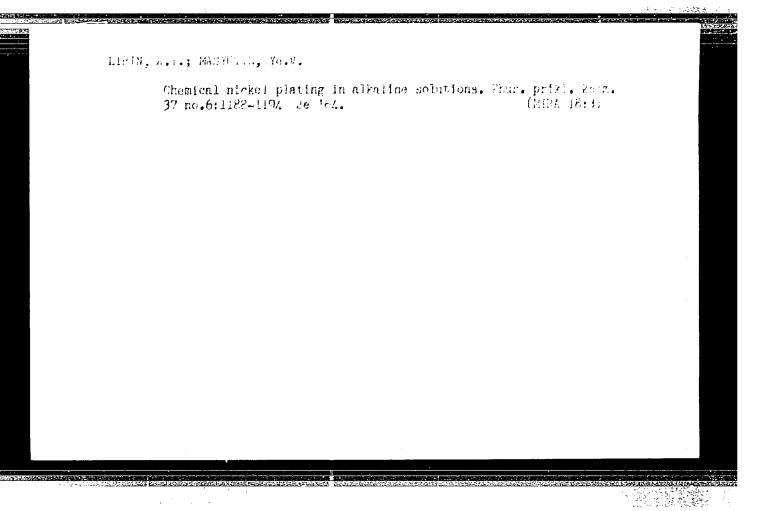
[Equipment for applying metallic and paint coatings]
Oborudovanie dlia naneseniia metallicheskikh i lakokrasochnykh pokrytii. Moskva, 1963. 70 p. (Materialy
zavodskogo opyta, no.3) (MIRA 17:4)

1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut nauchnoy i tekhnicheskoy informatsii.



LIPIN, A.I.; BELKIN, B.P.

Automatic control and regulation of electrolysis conditions. Biul. tekh. -ekon. inform. Gos. nauch. -issl.nauch. i tekh. inform. 17 no.9193-96 S 164 (MIRA 18:1)



<u>L 41718-65</u> EWT(m)/EWP(t)/EWP(b) ACCESSION NR: APSO10974 AFFTC/RADC

UR/0286/65/000/007/0160/0160

AUTHORS: Lipin, A. I.; Golovkina, N. P.

TITLE: A method for improving anticorrosional properties of phosphated steel details. Class 48, No. 169969

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 160

TOPIC TAGS: corrosion protection, steel, phosphated steel, cadmium inorganic compound, potassium compound

ABSTRACT: This Author Certificate presents a method for improving anticorrosional properties of phosphated steel details. To increase the stability of phosphate film, the latter is coated by contact-precipitation with cadmium from a solution containing (in g/liter): cadmium sulfate - 8-10; potassium cyanide - 1-3; potassium hydroxide- 10-15. The process is conducted for 3-10 minutes at 20-300.

ASSOCIATION: none

SUBMITTED: 18Apr64, NO REF, SOV: 000

ENCL: 00 OTHER: 000 SUB CODE: MM

	ACC NKi AP6002582 (A) (SOUTHOUT COOR)	
	INVENTOR: Lipin, A. I.; Golovina, N. P.	
	TITLE: Method of plating steel parts with cadmium! Class 48, No. 176766	
	SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 76	
	TOPIC TAGS: metal plating, cadmium, steel	
	ABSTRACT: This Author Certificate introduces a method of plating steel parts with cadmium in a cyanic solution. To alleviate the plating in areas of low accessibility a solution containing 8—12 g/l cadmium sulfide, the process is carried out in 10—15 g/l potassium hydroxide, with the steel part in contact with aluminum at a	
	SUB CODE: 13, 11/ SUBM DATE: 18Apr64/ ATD PRESS: 4/85	
L	Card 1/1 AC UDC: 621.357.76:669.738	
1 25 1		

KAZAKOV, V.A.; LIPIN, A.I.; MARTYHOVA, L.S.

Chromium electrodeposition at high temperatures. Zhur, rikl, khim.
38 no.11:2595-2596 N *65. (MIRA 18:12)

1. Submitted November 10, 1963.

EIPIN, A.N.

Science

Fresh water and fresh-water life. Moskva, Uchpedgiz, 1950.

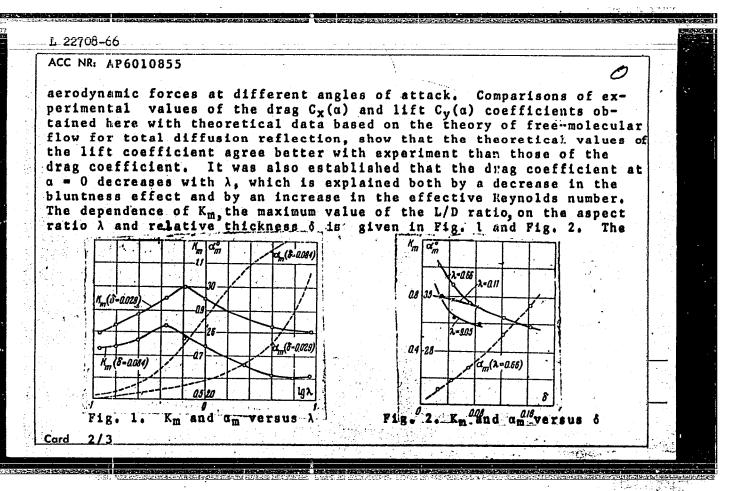
Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

LIPIN, A.N.

Water

Valuable scientific manual ("Fresh waters and their life." Review by V.A. Movchan). Ryb. khoz. 28 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, July, 1952. UNCLASSIFIED.



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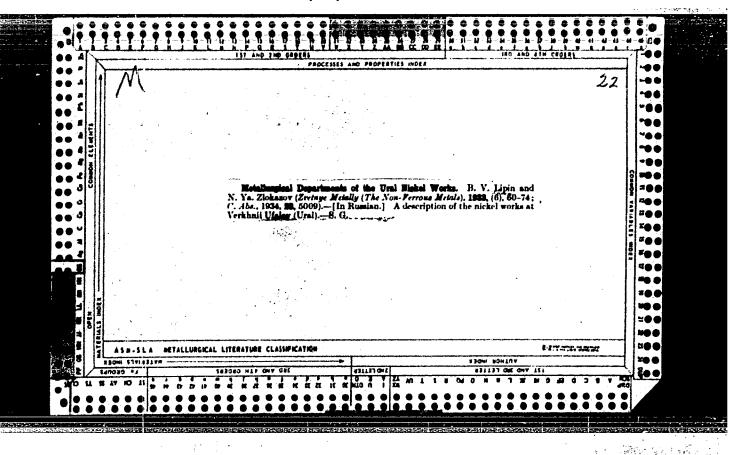
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values of α_m , the angle of attack at which the maximum K_m is attained, are plotted in Fig. 1. An analysis of the curves shows that the values of K_m for a rectangular plate of finite surface and thickness have a maximum at a certain value: of λ and that in case of viscous, hypersonic flows, wings with small aspect ratios (λ <1) are more advantageous than wings with larger aspect ratio (λ >1), in contrast to what happens at large Reynolds numbers. Orig. art. has: 5 figures.

SUB CODE: 20/ SUBM DATE: 25Ju165/ ORIG REF: 001/ OTH REF: 001/ ATD PRESS: 4229

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LIPIN, 8. V.	maples. He also states that it is very possible not only to make minor errors, but even to be make pletely in error because of the presence of smeans material in the calculations.	The work index of a factory, especially a metalluscal factory, depends on many processes and operations, it is necessary to determine a standard in scounting of the various outputs to attain a single standard on which a factory's total output can be puted. The author presents curves and tables as puted. The author presents curves and tables as	"Statistics for Computing the Output of Factory Thinks," B. V. Lipin, Candidate in Technical Sciences, Server- Nikel' Factory, 45 pp	USER/Metals Netallurgical Plants Statistical Methods
			and successive succ	sion discussion described the confession

LIPIN, B.V.

AUTHOR: Lipin, D. V.

136-9-6/14

TITLE:

On the form of lorses of non-fermous matche in also. (O forme poter' travetnyth and lloy so chlatadi).

PERIODICAL: Tevetnyje Metally, 1957, Le.C., pp. 31-36 (USSR).

ABSTRACT: The win of the inversely bion described was to provide

information on the form and the mediciness of losses of metals such as copyer, nicked, lead and cobult in also and to suggest ways of reducing these losses. The authors consider first the scholality of sulphilise in alegs and the presence of oridined confounds of the metals, basing themselves on literature data and thermodynemics. The major part of the article is occupied by the authors' discussion of mechanical losses. They quote results of microscopic investigations of alegs and show by Stoken-law calculations that their observed sizes of sulphide particles are sufficiently small to indicate that an approciable proportion would remain in suspension. They describe a liberatory contribuge apparatus (Fig. 1) with a crucible disaster of 60-100 an and aspecity of 300-300 g of alage. They used rates of revolution of 500-1000 per minute and be genetures of 1100-1750°C. The reductions in the consentrations of

On the form of lostes of non-ferrous metals in alags, 136-9-6/14

the various cetals in the claga were studied under different conditions and the results are tubalated and discussed. Their suggestions for reducing motal losses in slay include: careful proparation of the charge and maintenance of minimal oxidetion; prevention of particles of oxidized charge finding their may into the clas; acceleration of the enlargement of liquid culpide particles and their sattling. They conclude that contrifuging is a promising spyroach for full-scale practice. There are 2 figures, 3 tables and 6 refer mose all of

which are Russian.

ASSOCIABION: North-Caucasian Mining-Matallurgical Institute (Severo-Kavhasshiy Gorno-Metallurgicherity Institut).

AVAILABLE: Library of Congress.

1. Slags-Properties 2. Slags-Analysis 3. Instrumentation Card 2/2

